V. *Part of a Letter from the Reverend Mr.* Samuel Carte, *Rector of St.* Margaret's *Pariſh in* Leiceſter, *to Mr.* Humfrey Wanley, *F. R. S. Concerning an Ancient* Teſſellated, *or* Moſaic *Work, at* Leiceſter.

SIR,

I Take this Opportunity to ſend you a draught, made by one *Benjamin Garland*, of the *Opus Teſſellatum*, full extant in a Cellar here, over againſt the Elm Trees, near *All-Saints* Church. It is generally called *Actæon*, by ſuch Authors as mention it; but the bare Inſpection of it will convince you, that it is a Repreſentation of the Fable, which ſays, that a Perſon having found fault with *Venus*, ſhe, to be revenged of him, engaged her Son *Cupid* to make him fall in Love with a Monſter.

It was firſt diſcovered about 40 Years ago, upon digging of the Cellar, at about a Yard and half under the common preſent Surface of the Earth. What extent the whole Pavement was of is not known; but this Figure, which, by order of the Maſter of the Houſe, was preſerved, is an *Octogon*, ſurrounded by a Liſt, as you ſee in part repreſented in the corners of the Picture herewith ſent you. Without this, tho' not here repreſented, is a Twiſt or Wreath of various Colours; and round that, is a ſecond Liſt like the former. Theſe two Liſts, with the Wreath between them, are 6 Inches and a $\frac{1}{4}$ broad. The downright and tranſverſe Diameters of the *Area* are juſt a Yard; but the others, leading from corner to corner, are a Yard and two Inches and an half. The Man, from Head to Foot, is two Foot and 4 $\frac{1}{2}$ Inches. *Cupid* ſeems

See the Figure.

ſeems to be two Foot; but his Feet, as well as the bottom of the Monſter, are ſpoiled, the *Teſſellæ* repreſenting them being gone. You will eaſily underſtand, that the whole *Area* of the Figure, which is here left blank, ought to be fill'd up with white *Teſſellæ*, in like manner as you ſee ſome Intervals of the Figures here. I hope, that what foregoes, will ſerve to give you a juſt Idea of this Piece of Antiquity, but forbear to make any Reflections on it, as knowing that your Genius and Studies qualify you for that much better than my ſelf. I am,

Sir,

Your Affectionate Friend and humble Servant,

SAMUEL CARTE.

Leiceſter,
Auguſt 7. 1710.

VI. *An Account of the* Repetition *of an Experiment of the late Dr.* Hooke's, *concerning two Liquors, which, when mixt together, will poſſeſs leſs ſpace, than when ſeparate: With another Experiment confirming the ſame. By Mr.* F. Hauksbee, *F. R. S.*

THE Experiment related by the late Ingenious Experimentor Dr. *Hooke*, in one of his Papers (delivered to me by Mr. *Waller*) is concerning two Liquors, which, when mixt together, would poſſeſs leſs ſpace than when ſeparate; which he calls a Penetration of Dimenſions: And adds further, that this Penetration is the cauſe of Heat, of Fire, of Flame, of the Power of Heat,